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## IN THE CLAIMS:

Set forth below in ascending order, with status identifiers, is a complete listing of all claims currently under examination. Changes to any amended claims are indicated by strikethrough and underlining. This listing also reflects any cancellation and/or addition of claims.

 (currently amended) A method for processing <u>multi-channel</u> audio data <u>from multiple</u> sources using a single sound card, comprising:

presenting a plurality of virtual devices to a user;

receiving a selection from the user, the selection being an association of at least one of a plurality of audio data streams generated by different applications with at least one of the plurality of virtual devices, each virtual device associated with at least one output audio channel of a plurality of output channels of a sound card; and

using a plurality of virtual device drivers to write audio data streams from open applications into a system memory accessible by a <a href="mailto:the-single">the single</a>-sound card and to program the <a href="mailto:single">single</a>-sound card to associate audio data streams of open applications with output audio channels based on the user's selection of virtual devices; and

at an audio processing unit of the <u>single</u> sound card, reading audio data and the virtual device selection from system memory;

at the audio processing unit of the <u>single</u> sound card, multiplexing audio data streams from open applications based on the user's selection to support simultaneously outputting audio from a plurality of open applications according to the user's selection of virtual devices; and

<u>simultaneously</u> outputting audio from <u>two or more different</u> open applications according to the user's selection of virtual devices, wherein the user's selection associates one or more virtual devices with the audio stream of each <u>open application of one or more applications and audio streams of open applications are simultaneously output, audio data streams.</u>

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2. (previously presented) The method of claim 1, further comprising the audio processing

unit writing multiplexed audio data streams back to system memory and an audio codec interface

of the sound card reading multiplexed audio data streams from system memory and routing

signals in the digital domain to a plurality of audio codec DACs to generate analog output

channels according to the user's selection.

3. (previously presented) The method of claim 1, wherein presenting includes displaying a

list of the plurality of virtual devices on a graphical user interface wherein the graphical user

interface associates each of the plurality of output channels with at least one of a plurality of

jacks on the sound card.

4. (previously presented) The method of claim 3, wherein the graphical user interface

associates each of the plurality of output channels with at least one of a plurality of audio devices

external to the sound card.

5. (previously presented) The method of claim 3, wherein the graphical user interface

associates each of the plurality of output channels with at least one of a plurality of geographical

locations.

6. (original) The method of claim 1, wherein receiving includes receiving inputs from the

user via a graphical user interface.

7. (original) The method of claim 1, wherein the each of the plurality of audio streams are

associated with one of a plurality of audio applications.

8. (original) The method of claim 1, wherein receiving includes reading an association of at

least two audio data streams with a single virtual device.

9. (original) The method of claim 1, wherein outputting includes converting each of the

plurality of audio data streams from digital to analog format.

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(currently amended) A system for processing <u>multi-channel</u> audio data <u>from multiple</u> sources using a single sound card, comprising:

a the single sound card having an audio processing unit to read digital audio data from a

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memory and an audio codec having a plurality of digital to analog converters (DACs) to support

a plurality of analog output channels;

a graphical user interface configured to display a plurality of virtual devices to a user,

each of the plurality of virtual devices representative of at least one of the plurality of output

channels on the single sound card, the graphical user interface further configured to receive a

selection from the user, the selection being an association of each an audio data stream with at

least one of the plurality of virtual devices, the <u>single</u> sound card coupled to the graphical user

interface to receive the user selection and the audio data streams, the single sound card further

configured to output the audio data stream based on the selection; and

a plurality of virtual device drivers to write digital audio data streams from open

applications into the memory and to program the single sound card to associate digital audio data

streams of open applications with analog output audio channels based on the user's selection of

virtual devices;

the system <u>simultaneously</u> outputting audio from <u>two or more</u> open applications

according to the user's selection of virtual devices, wherein the user's selection associates one or

more virtual devices with the audio stream of each open application of one or more applications

and audio streams of open applications are simultaneously output.

11. (cancelled)

12. (currently amended) A method for processing audio data, comprising:

in a single sound card, reading a system memory storing a plurality of audio data streams

from open applications and a user selection, the user selection being an association of each of the

plurality of audio data streams with at least one of a plurality of virtual devices, each of the

plurality of virtual devices representative of at least one of a plurality of output channels on a

sound eard.

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in an audio processing unit of the single sound card, performing audio processing that

includes multiplexing the plurality of audio data streams based on the user selection into a multiplexed audio data stream based on the user's selection and writing the multiplexed audio

data stream to the system memory;

in the single sound card, performing an audio codec operation that includes reading the

multiplexed audio data stream from system memory and parsing the multiplexed audio stream into a plurality of output data streams, each of the plurality of output data streams being

associated with at least one of the plurality of output channels based on the user selection; and

simultaneously outputting audio from two or more open applications according to the

user's selection of virtual devices, wherein the user's selection associates one or more virtual

devices with the audio stream of each open application of one or more applications and audio

streams of open applications are simultaneously output.

13. (original) The method of claim 12, wherein parsing is based on a predetermined scheme.

14. (original) The method of claim 12, further comprising mixing at least two of the plurality

of audio data streams.

15-16. (cancelled)

(currently amended) A system for processing audio data, comprising:

a system memory having a plurality of audio data records from open applications and a

user selection, the user selection being an association of each of the plurality of audio data

records with at least one of a plurality of virtual devices, each of the plurality of virtual devices

representative of at least one of a plurality of output channels on a single sound card;

an audio processor of the <u>single</u> sound card being coupled to the system memory and configured to read the plurality of audio data records and the user selection, the audio processor

further configured to multiplex the plurality of audio data records based on the user selection into

a multiplexed audio data record; and

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an audio codec and associated audio codec interface of the single sound card being

coupled to the system memory and configured to parse the multiplexed audio record into a

plurality of output data streams, each of the plurality of output data streams being associated with

at least one of the plurality of output channels, the audio codec including a plurality of digital to

analog converters (DACs) with the audio codec being configured to process the process the

plurality of output data streams and assign output data streams to digital-to-analog converters

associated with output channels defined by the selection;

the system supporting simultaneously outputting audio from two or more open

applications according to the user's selection of virtual devices, wherein the user's selection associates one or more virtual devices with the audio stream of each open application of one or

more applications and audio streams of open applications are simultaneously output.

18. (original) The systems of claim 17, wherein the first processor is further configured to

mix at least two of the plurality of audio data records.

19-20 (cancelled).

21. (new). The system of claim 17, wherein the two or more open applications includes at

least two applications selected from the group consisting of a media player, game software, a

video player, and software generating audio data as an output.

22. (new). The method of claim 12, wherein the two or more open applications includes at

least two applications selected from the group consisting of a media player, game software, a

video player, and software generating audio data as an output.

23. (new). The system of claim 1, wherein the two or more open applications includes at least

two applications selected from the group consisting of a media player, game software, a video

player, and software generating audio data as an output.